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INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP99/05473

A. CLASSIFICATION OF SUBJECT MATTER
Int.Cl⁷ G09G3/22

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
Int.Cl⁷ G09G3/00-3/36Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
Jitsuyo Shinan Koho 1926-1996 Toroku Jitsuyo Shinan Koho 1994-1999
Kokai Jitsuyo Shinan Koho 1971-1999 Jitsuyo Shinan Toroku Koho 1996-1999Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
WPI

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	JP, 60-216387, A (NEC Corporation), 29 October, 1985 (29.10.85),	1,2,30-35, 48-51
Y	page 2; upper right column; line 13 to page 3; upper left	5,6
A	column; line 6; Figs. 1, 2 (Family: none)	9,10,13,14,17- 22,38,39,42-44
P,X	JP, 11-167366, A (Casio Computer Co, Ltd.), 22 June, 1999 (22.06.99),	17,18,23,30-33
P,A	Par. Nos. [0057], [0071], [0075]; Fig. 11 (Family: none)	,42,45,47-51 19-22,46
Y	JP, 10-172479, A (Canon Inc.), 26 June, 1998 (26.06.98),	1,2,5,6,9-16,2 4,25,27,28,30-
A	Par. Nos. [0090], [0094]; Fig. 18 & AU, 9739954, A &KR, 98032625, A	35,38-41,48-51 3,4,7,8,17-23, 26,29,36,37, 42-47
Y	JP, 63-304228, A (Hitachi, Ltd.), 12 December, 1988 (12.12.88),	1,2,5,6,24,25, 30-35,48-51
A	page 3; lower left column; line 16 to page 4; upper left column; line 1; Fig. 1 (Family: none)	9,10,13,14,27, 28,39

 Further documents are listed in the continuation of Box C. See patent family annex.

- * Special categories of cited documents:
- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
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- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

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- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- "&" document member of the same patent family

Date of the actual completion of the international search
15 December, 1999 (15.12.99)Date of mailing of the international search report
28 December, 1999 (28.12.99)Name and mailing address of the ISA/
Japanese Patent Office

Authorized officer

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP99/05473

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP, 3-48889, A (Fuji Electric Co., Ltd.), 01 March, 1991 (01.03.91), page 5; upper right column; line 10 to page 6; upper right column; line 10; Figs. 2, 3 (Family: none)	1, 2, 5, 6, 24, 25, 27, 28, 30-35, 48-51 9, 10, 13, 14, 29
A		
Y	JP, 4-204993, A (Sharp Corporation), 27 July, 1992 (27.07.92), page 3; lower right column; line 19 to page 4; lower right column; line 1; Fig. 2 (Family: none)	1, 2, 5, 6, 24, 25, 30-35, 48-51 27, 28
A		
Y	JP, 62-206589, A (NEC Corporation), 11 September, 1987 (11.09.87), page 2; upper right column; line 16 to lower left column; line 5; Fig. 1 (Family: none)	1, 2, 5, 6, 24, 25, 30-35, 48-51 27, 28
A		
A	JP, 2-273720, A (Hitachi, Ltd.), 08 November, 1990 (08.11.90), page 2; lower right column; line 6 to page 3; lower right column; line 19; Figs. 1, 2 (Family: none)	9, 10, 13, 14, 24, 25, 27, 28, 30-33 , 38, 39, 48-51
Y		
A	Microfilm of the specification and drawings annexed to the request of Japanese Utility Model Application No.16438/1991 (Laid-open No.107293/1992) (KANSEI CORPORATION), 16 September, 1992 (16.09.92), Par. Nos. [0009]-[0010]; Fig. 3 (Family: none)	11, 12, 15, 16, 40, 41 3, 4, 7, 8, 26, 36, 37
A		
A	JP, 2-272490, A (Hitachi, Ltd.), 07 November, 1990 (07.11.90), page 4; lower right column; line 19 to page 5; upper right column; line 17; page 6; upper right column; line 14 to lower right column; line 3; Fig. 1 (Family: none)	1, 2, 5, 6, 17-25, 30-35, 42-51